

AMENDMENTS TO THE CLAIMS:

Claims 1-7 (cancelled).

8. (currently amended) An optical system, such as for a fundus camera, which has a substantially coaxial illumination beam path and imaging beam path, comprising:

a lens system of at least four lenses;

at least two lenses of these at least four lenses being tilted with respect to their optical axes relative to the illumination beam path and imaging beam path;

the optical axes of said two lenses and optical axis of the illumination beam path and imaging beam path lying in a first plane;

at least two other lenses of the at least four lenses being tilted with respect to their optical axes relative to the illumination beam path and imaging beam path; and

the optical axes of the two other lenses and optical axis of the illumination beam path and imaging beam path lying in a second plane which intersects the first plane substantially along the optical axis of the illumination beam path and imaging beam path and wherein the optical axis of the illumination beam path and imaging beam path penetrates the lens outside their optical axes.

9. (previously presented) The optical system according to claim 8, wherein the first plane and the second plane extend substantially perpendicular to one another.

Claim 10 (cancelled)

11. (previously presented) The optical system according to claim 8, wherein the optical axes of the lenses are arranged outside the beam bundle of the illumination beam path and imaging beam path.

12. (previously presented) The optical system according to claim 8, wherein the lenses comprise lens segments.

13. (previously presented) The optical system according to claim 8, wherein at least one of the lenses has an aspheric surface.

14. (previously presented) The optical system according to claim 8, wherein at least one lens is replaced by a diffractive optical element.